

A clean version of each replacement claim is submitted below. Please enter each claim.

D1

7) (Amended) A composition containing a labile disulfide bond for inserting into an organism, comprising: a disulfide bond, wherein at least two reactable groups, at least one on each side of the disulfide bond, have reacted to form a covalent bond with one or more molecules, such that the disulfide bond remains labile under physiologic conditions and is cleaved more rapidly than oxidized glutathione; wherein cleavage of the disulfide bond results in the formation of two molecules.

D2

24) A composition for inserting into an organism, comprising: a disulfide bond wherein at least two reactable groups, at least one on each side of the disulfide bond, have reacted to form a covalent bond with one or more molecules, such that the disulfide bond is cleaved more rapidly than oxidized glutathione and is activated by intramolecular attack from a free thiol resulting in the formation of two molecules.

Applicants hereby submit a version with markings to show changes made:

7) (Amended) A composition containing a labile disulfide bond for inserting into an organism, comprising: a disulfide bond, wherein at least two reactable groups, at least one on each side of the disulfide bond, have reacted to form a covalent bond with one or more molecules, such that [is] the disulfide bond remains labile under physiologic conditions and is cleaved more rapidly than oxidized glutathione, wherein cleavage of the disulfide bond results [resulting] in the formation of two molecules.

24) A composition for inserting into an organism, comprising: a disulfide bond wherein at least two reactable groups, at least one on each side of the disulfide bond, have reacted to form a covalent bond with one or more molecules, such that the disulfide bond is cleaved more rapidly than oxidized glutathione [labile under physiologic conditions] and is activated by intramolecular attack from a free thiol resulting in the formation of two molecules.